



Expert in maintaining a wide range of biomedical equipment and patient beds



Preventative Maintenance Program

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A newer system of healthcare

QEC offers biomedical equipment repair services that will be supportive for your patients, and flourish your business. We offer an inclusive repair and precautionary maintenance solution that will fit in your budget, along with keeping your equipment at patient-ready standards.

Our biomedical maintenance service ranges from repairing and servicing equipment of a single medical domain to equipment of the whole medical facility. With QEC you select the services that you think are right for your system.

Services We Offer

Exceptional Talent For Your Biomedical Services Precisely When You Need It



Equipment Repair & Maintenance



New Equipment Installation And Commissioning



Total Equipment Management



Electrical Safety Testing & Compliance Check



Oem Service Partnership

Recommended Equipment Service Cycle Guide

EQUIPMENT DESCRIPTION:

MAINTENANCE FREQUENCY:

Hospital Bed (electric)	Annually
Lifting Hoist (electric)	6-month
Lifting Hoist (ceiling)	6-month
Alternating Pressure Mattress	6-month
Shower Transport Commode	Annually
Commercial Trolley	Annually
Pressure/Positioning Chair	Annually
Wheelchair (manual)	Annually
Wheelchair (electric)	Annually
Wheelchair (tilt n space)	Annually
Shower Trolley (manual)	Annually
Shower Trolley (electric)	Annually
Walking Frame	Annually
Weigh Scales (not calibration)	Annually
Electrical Test & Tag (additional)	Annually
Sanitisers	6-month
Macerators	6-month

Maintenance of Hospital Bed



Checking Bed Operation Functions	Raising / Lowering
Checking Hand Controller Integrity	Function / Casing / Cable
Checking Castors	Movement / Brakes
Checking Frame Structure	Integrity / Condition
Checking Actuators	Movement / Noise
Electrical Test & Tag	Electrical Leads / Connections
Checking Mattress Structure	Integrity / Condition
Checking Bed Ends	Structural / Movement

Preventative Maintenance Equipment Report

Electrical Safety Check



**Electrical Safety Check
PERFORMANCE VERIFICATION REPORT
AS3551:2012**

Standard Job	Biomedical Equipment Electrical Safety Verification		
Manufacturer		Service Date:	
Model		Asset Number	
Serial No		Department	
Equipment			

General Condition of Equipment	Results
Self Test, Alarms Audible, Display Operational	
Keypads and Foot Switch Operation	
Wheels, Castors and Brakes are in working order	
Electrical Safety Test (AS3551)	
Equipment markings are legible	
Fuse ratings correct	
Equipment, Accessories Connectors, Plugs & Sockets undamaged and secured. Power cord approved type	
Protective Earth Test	
Class I equipment, resistance from mains plug to accessible earthed parts, fixed power supply cord <0.2 Ω or detachable power supply cord <0.3 Ω	
Class I & II equipment, detachable cord measured separately, the maximum resistance for the protective earthing conductor is <0.2 Ω	
Class I equipment, resistance between any protectively earthed accessible metal parts and the protective earth terminal of the equipment is <0.1 Ω	
Insulation Resistance Tests	MΩ
Mains parts to protective earth & mains to equipment enclosure >10MΩ	
Earth Leakage Current Test	uA
Class I equipment, 5,000uA max, no fault condition	
Class I equipment, 10,000uA max, neutral open or mains reversed	
Touch Test Current (Enclosure Current)	μA
Class I single-phase and multi-phase equipment, no fault condition, 100uA	
Class I single-phase equipment with a flexible supply cord, neutral open or earth open, 500uA max	
Applied Part Leakage Current	μA
CF equipment, 10uA max, normal condition	
CF equipment, 50uA max, earth open or neutral open	
BF & B equipment, 100uA max, normal condition	
BF & B equipment, 50uA max, earth open or neutral open	
Mains Contact Current	uA
CF equipment, 50uA max, per patient connection	
BF equipment, 5000uA max, all applied parts bridged together	

Preventative Maintenance Equipment Report

Vital Signs Monitor



Vital Signs Monitor PERFORMANCE VERIFICATION REPORT AS3551:2012

End User		Department	
Manufacturer		Model	
Aux ID		Serial No	

General (all tests to be done on battery)	Results
Condition of Equipment	
Self-Test	
General Condition of Accessories	
High Spo2 Alarm	
Low Spo2 Alarm	
Probe off	
NIBP Accuracy to manufacturer specifications or +/- 2mmHg OR	
NIBP Accuracy with Sim Cube 120/80	
Temperature Probe Condition and Function Check	
Battery Functional (replace every two years if lead acid)	
Electrical Safety Test (AS3551)	
Equipment markings are legible	
Fuse ratings correct	
Equipment, Accessories Connectors, Plugs & Sockets undamaged and secured. Power cord approved type	
Protective Earth Test	Ω
Class I equipment, resistance from mains plug to accessible earthed parts, fixed power supply cord <0.2 Ω or detachable power supply cord <0.3 Ω	
Class I & II equipment, detachable cord measured separately, the maximum resistance for the protective earthing conductor is <0.2 Ω	
Class I equipment, resistance between any protectively earthed accessible metal parts and the protective earth terminal of the equipment is <0.1 Ω	
Insulation Resistance Tests	MΩ
Mains parts to protective earth & mains to equipment enclosure >10MΩ	
Earth Leakage Current Test	uA
Class I equipment, 5,000uA max, no fault condition	
Class I equipment, 10,000uA max, neutral open or mains reversed	
Touch Test Current (Enclosure Current)	μA
Class I single-phase and multi-phase equipment, no fault condition, 100uA	
Class I single-phase equipment with a flexible supply cord, neutral open or earth open, 500uA max	

Comments

Test Equipment Used:

Preventative Maintenance Equipment Report

Patient Bed



PATIENT BED Annual PM Check Sheet

Asset Number		Work Order No:	
Service Date:		Start Time:	Time (hrs)
Make		Model:	Serial No:

Pre Start Checks			
1	Have you performed a work place hazard assessment?		If no, please explain
2	Have you identified any work place hazards?		If yes, please report all hazards to your supervisor.

Return the Bed to Service Functional Check List			
1	Check condition of castors.		
2	Check bed steering lock action.		
3	Check bed braking / locking action.		
4	Check all bed movements are as per the hand controller.		
5	Check the side rail condition, raise and locking actions.		
6	Check battery Voltage and record Check battery last changed date. (replace batteries if > 3 years and affix new sticker)		
7	Check serviceability of all link / pivot / hinge connections.		
8	Check for missing or loose fasteners.		
9	Inspect Power cord and connector		
10	Check CPR release function		
11	General Mechanical inspection		
12	Check lock out control		
13	Check condition and serviceability of both the bed head and footboards.		
14	Confirm the currency of the electrical safety tag. (retest if out of date)		
15	Confirm the currency of the planned maintenance due date. Raise Corrective		
16	Confirm the presence of the Safe Working Load (SWL) label.		
17	Confirm the presence of the 'Do not use Hill-Rom Mattress' label on non Hill Rom beds.		
18	Perform a push test for 15m, check for proper steering and any abnormal rolling resistance.		
Do not put this bed back into service if any item records a 'fail'			

Electrical Safety checks Yes/NA		Record Results
1	Protective earth test (Earth resistance main plug earth connector to accessible earthed part <0.2 Ohm (AS3551) . Not applicable for class 2 insulated appliance	Ohms
2	Insulation resistance (Mains terminal to PE and to eqpt enclosure >10MOhm)	M Ohms
3	Earth leakage current test Class1 eqpt ,no fault condition <5000uA	uA
4	Neutral open or Main reversed <10000uA	uA
5	Touch current (Ensure there is no patient ton the bed), no fault condition <100uA	uA
6	Touch current with neutral open or earth open (Ensure there is no patient ton the bed) <500uA	uA
Do not put this bed back into service if any item records a 'fail'		

Preventative Maintenance Equipment Report

12 Lead ECG



12 Lead ECG PERFORMANCE VERIFICATION REPORT AS3551:2012

End User		Department	
Manufacturer		Model	
Aux ID		Serial No	

General (all tests to be done on battery)	Results
Condition of Equipment	
Keyboard Test	
LCD Test	
ECG Accuracy / Printer Functional and Image Quality (Tested @ 60 BPM)	
Confirm Time and Date Settings Correct	
Leads/s Off Warning and Artefact	
Perform 12 Lead Analysis (ensure line filter turned on)	
Battery and Charger Status	
Electrical Safety Test (AS3551)	
Equipment markings are legible	
Fuse ratings correct	
Equipment, Accessories Connectors, Plugs & Sockets undamaged and secured. Power cord approved type	
Protective Earth Test	Ω
Class I equipment, resistance from mains plug to accessible earthed parts, fixed power supply cord <0.2 Ω or detachable power supply cord <0.3 Ω	
Class I & II equipment, detachable cord measured separately, the maximum resistance for the protective earthing conductor is <0.2 Ω	
Class I equipment, resistance between any protectively earthed accessible metal parts and the protective earth terminal of the equipment is <0.1 Ω	
Insulation Resistance Tests	MΩ
Mains parts to protective earth & mains to equipment enclosure >10MΩ	
Earth Leakage Current Test	μA
Class I equipment, 5,000μA max, no fault condition	
Class I equipment, 10,000μA max, neutral open or mains reversed	
Touch Test Current (Enclosure Current)	μA
Class I single-phase and multi-phase equipment, no fault condition, 100μA	
Class I single-phase equipment with a flexible supply cord, neutral open or earth open, 500μA max	
Applied Part Leakage Current	μA
CF equipment, 10μA max, normal condition	
CF equipment, 50μA max, earth open or neutral open	
Mains Contact Current	μA
CF equipment, 50μA max, per patient connection	

Comments



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